TAXiTRONiC

TXD70

USERS MANUAL

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1 DESCRIPTION OF THE DEVICE

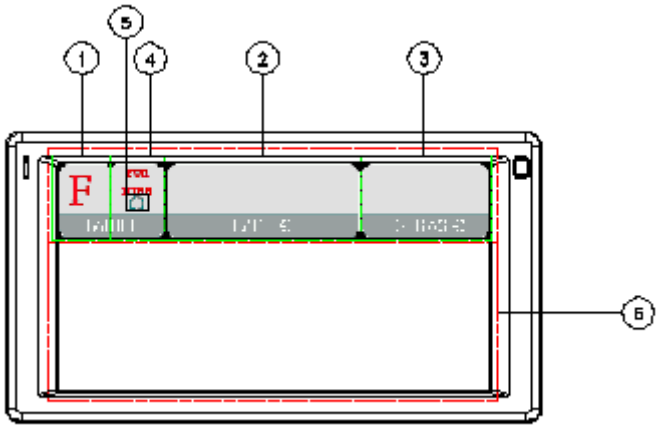
1.1 MAIN TECHNICAL CHARACTERISTICS

	Length	Width	Height	Weight
MX70	80 mm	32 mm	60 mm	132 gr
TXD70	179 mm	70 mm	100 mm	624 gr

TXD70 is designed to operate in an environment of electromagnetic class E3 (instruments powered by a vehicle battery) and in a mechanical environment class M3 (high and very high vibration level, as in a vehicle). Power supply is from 11 to 30 V.

TXD70 operates inside a vehicle, in a temperature range of -25ºC / 70ºC without condensation

1.2 TAXIMETER DISPLAY



TARIFF display (1)	Displays the tariff position of the taximeter
STATUS display (4)	Displays the operative status of the taximeter
FARE display (2)	Displays the amount to be paid
EXTRAS display (3)	Displays the extras.
Time / Distance indication (5):	It indicates if the taximeter is counting by - Distance (indication OFF) - Time (indication ON)

Some Taximeter functions, like Extras, activate a pop-up window over the Terminal area (6)

1.3 FLEET MANAGEMENT INTERFACE

The device handles the taximeter and also fleet management functions, which are not metrological. The non-metrological functions are displayed in the area below the taximeter.

TABS

The fleet management functions of the terminal are distributed into 5 tabs. These tabs are shown just below the taximeter area. The user interface of the active tab uses the rest of the area of the terminal.

Trips	Functions	Calls	Messages	Navigator
Taxi trips functionality	Configuration Information Special tickets	Calls management	Messages between taxi and central	Integrated navigator (optional)

STATUS BAR

The bottom area of the display contains status bar which displays information about:

Location	Calls	Messages	Coverages	Time
Taxi Location information	Calls status	Unread messages	Connection status and coverage of GPS / GSM / GPRS G = GPRS or EDGE H = 3G	hh:mm

1.4 CARD READER

The magnetic card reader is at the top right of the terminal.

Cards must be slid from left to right, with the magnetic band to the back.

2 CLOSED SHIFT SCREEN

When in OFF or STANDBY, press anywhere on the screen to switch ON.

The terminal switches ON and goes to CLOSED SHIFT.

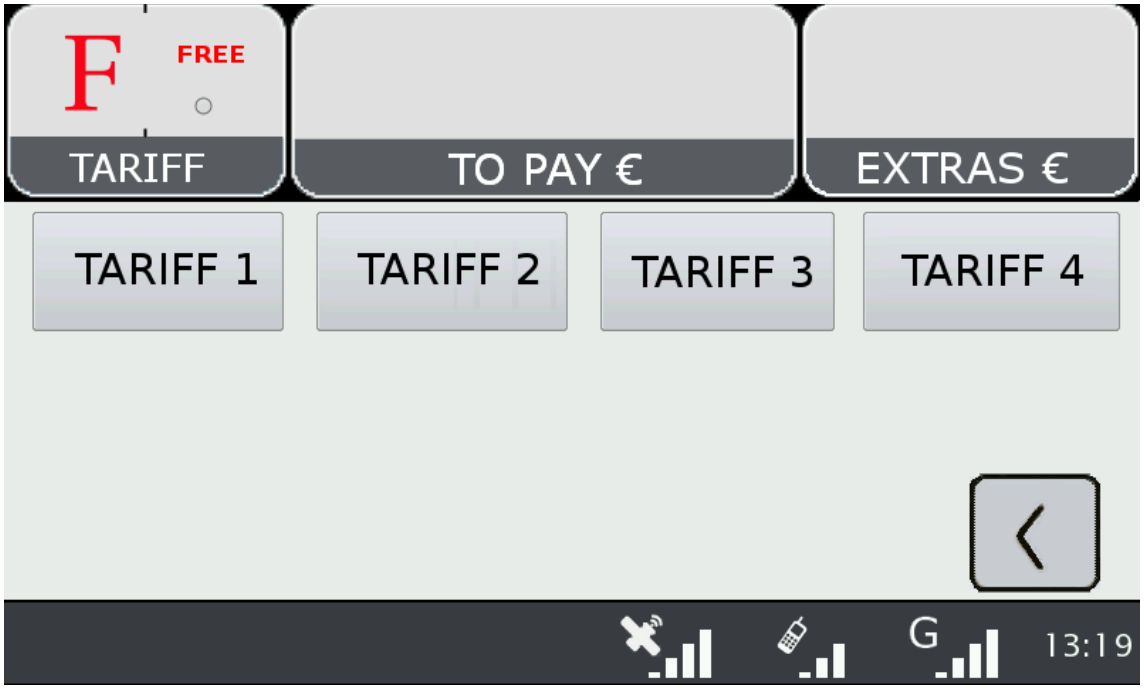
The functions available on the main CLOSED SHIFT screen are:

	Switch to STANDBY for a short pause. After some time the device will shut down automatically
	Switch to OFF
	Login without Central This starts the work session, allowing to work as an off-line taximeter: There is no connection with the taxi radio central to receive taxi trips. In the user identification screen, depending on the configuration, you may have to enter a driver code, or a user and password
	Login with Central This starts the work session, activating the full functionality of the TC60/TV60, In the user identification screen, depending on the configuration, you may have to enter a driver code, or a user and password

3 TAXIMETER TRIP

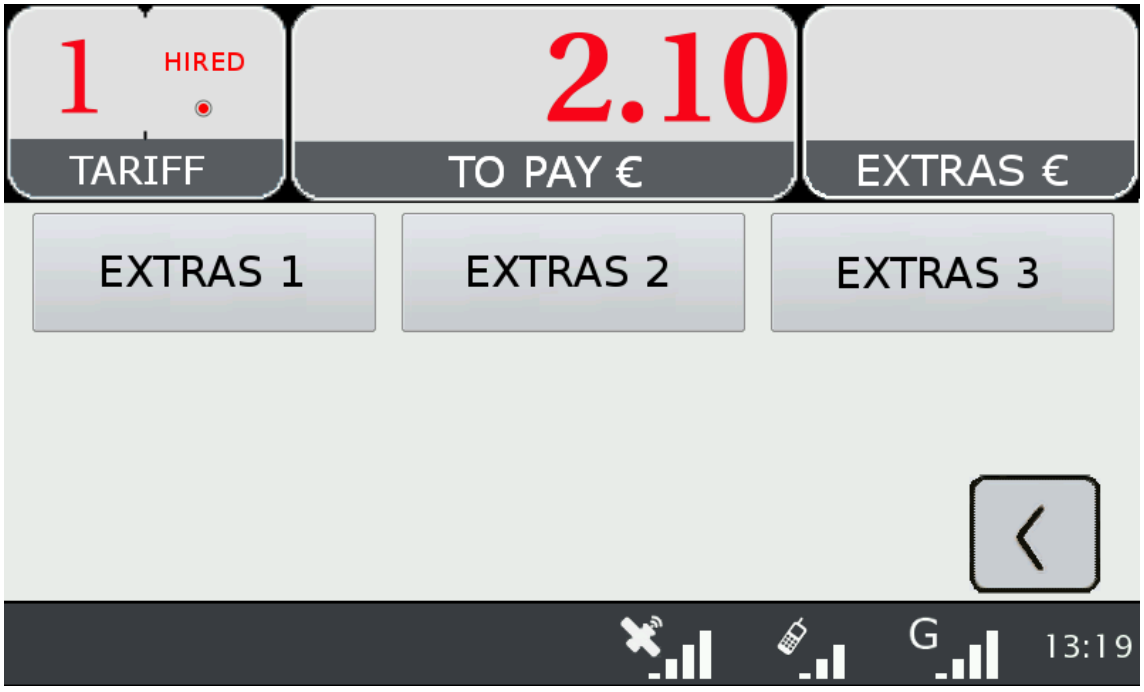
3.1 TAXIMETER TRIP

Start a trip	When in FOR HIRE, press on the Tariff Area to start a trip. On the pop-up menu, select the desired tariff. The taximeter will switch to HIRED. When in HIRED, press on the Tariff Area to change to another tariff. A pop up menu will display the tariffs which are currently selectable. Select the desired tariff.
Switch to Stopped	While in HIRED, press on the Status Area to switch to STOPPED.
Switch to For Hire	While in STOPPED, press on the Status Area. This will switch to FOR HIRE. The fleet management zone will display the Payment menu. See point PAYMENT MENU for details



3.2 EXTRAS

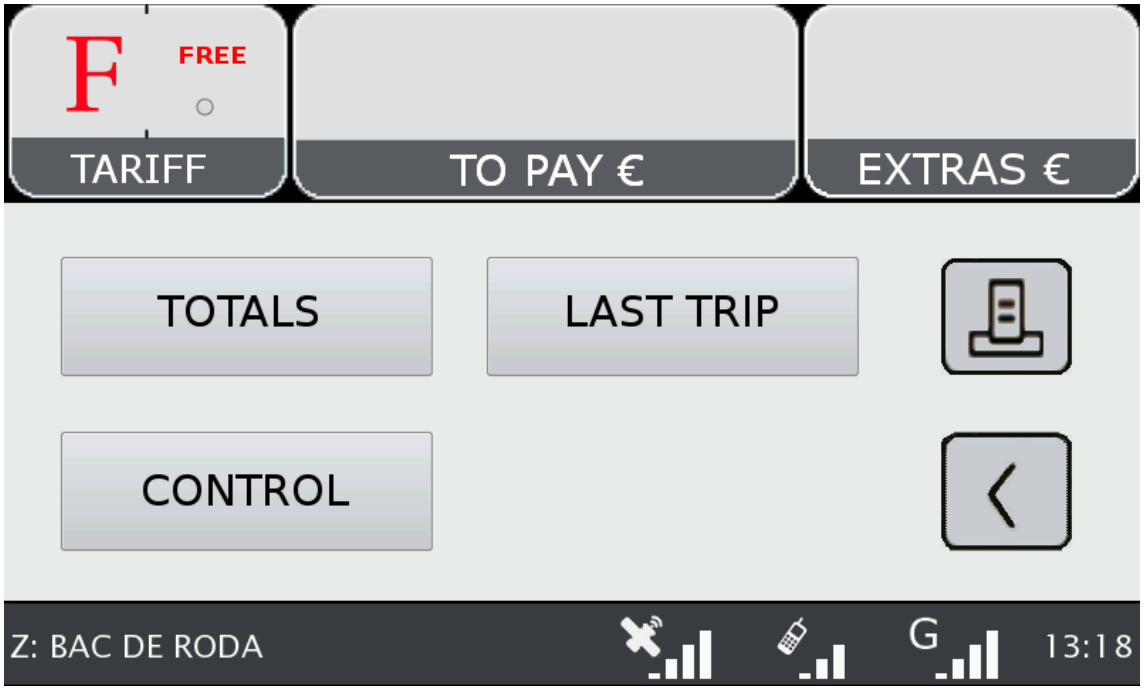
Add Extras. 	When in HIRED or STOPPED, press on the EXTRAS area to add Extras. If Extras are allowed, a pop up menu displays the available Extras. Select the adequate Extras button.
Fare and Extras addition 	When in STOPPED, press on the FARE Area. The FARE display will show the addition of FARE and EXTRAS for a configurable time.
Cancel Extras	To cancel extras while in STOPPED, press on the TARIFF area and select CANCEL EXTRAS. This function might be disabled if local regulations do not allow it.



4 TAXIMETER AUXILIARY FUNCTIONS

While in FOR HIRE the taximeter can display complementary information. These functions are all closed after a timeout, or if the car is moving.

Most of these functions are available by selecting the Extras area in Free. A pop-up window is opened.



4.1 CALENDAR-CLOCK

While in FOR HIRE, press on the FARE Area. Keep pressing on FARE to go through the visualization of all data. The data displayed in sequence are:

	Operation display	Data on the Fare display	Data on the Extras display
Step 1	HO	Time	
Step 2	DA	Day of the month	Day of the week
Step 3	YE	Year	

4.2 LAST TRIP DATA

While in FOR HIRE, press on the EXTRAS area. A pop up menu opens. Select “LAST TRIP”.

4.3 TOTALIZERS

While in FOR HIRE, press on the EXTRAS Area. A pop up menu opens. Select “TOTALS”

The Accumulative Totalizers are displayed. Scroll down to see the Partial totalizers. The Totalizers that can be displayed are:

	Units	Accumulative	Partial
Number of trips		o	o
Fare amount	Currency	o	o
Extras amount	Currency	o	o
Total amount	Currency	o	o
Total Distance	km	o	o
Distance in Hired	km	o	o
Distance in For Hire	km	o	o
Distance in For Hire with passenger (*)	km	o	o
Time in Hired	h	o	o
Time in ON	h	o	o
Number of battery disconnections		o	o
Time since last disconnection	h	o	o
Number of times Partial totalizers have been reset		o	

(*) The totalizer “Distance in For Hire with passenger” is operative only if there is a connected optional Passenger Sensor.

RESETTING PARTIAL TOTALIZERS

While the totals are being displayed, press on the “X” button to reset the partial totalizers. It is necessary to enter a password.

- If the password is not correct, the window is closed without resetting the values
- If the password is correct, the partial totalizers are reset

4.4 VIEWING CONTROL DATA

While in FOR HIRE press on the EXTRAS Area

A pop up menu opens. Select the button “CONTROL BLOCKS”. Scroll to view more data.

Press on the Printer button to print the control blocks information.

CONTROL DATA BLOCK 1

Data displayed in Control Block 1 are:

Code	Format	Description
C.1	XXXX	K constant in pulses/km
C.2.	XXXX	Tariff number
C.3.	YY/MM/DD	Date in which the tariff was charged to the taximeter.
C.4.	XXXX	Number of the distributor who charged the tariff
C.5.	X.X.X.X.	Tariff checksum
C.6.	YY/MM/DD	Date in which a pre-recorded tariff will become active
C.7.	X.X.X.X.	Checksum of the pre-recorded tariff
C.8.	X.X.X.X.	Number of changes of the K constant
C.9.	X.X.X.X.	Number of tariff changes

CONTROL DATA BLOCK 2

Data displayed in Control Block 2 are:

Code	Format	Description
L.1	XXXX	Taxi License number
L.2.	XXXXX.	TXD70 serial number
L.3.	XX/XX/XX	TXD70 manufacturing date
L.4	XX/XX/XX	TXD70 installing date
L.5	XXXX.	Number of the distributor who installed the TXD70
L.6	XX.XX	TXD70 taximeter software version
L.7	XXXX	TXD70 taximeter software version checksum
L.8	XXXXXXXXXX	Fiscal ID of the owner
U.1 to U.8	YYYY/MM/DD HH:MM VVVV	Date, time and version number of the last 8 taximeter software updates

CONTROL DATA BLOCK 3

Data displayed in Control Block 3 are:

Code	Format	Description
I.	XX	Tariff ID
b.	XXXXX	Initial amount, flag drop
M.	XXXXX	Meters first drop
S.	XXXXX	Seconds first drop
d.	XXXXX	Distance tariff (€/km)
S.	XXXXX	Time tariff (€/hour)
P.	XX	Tariff position in FARE
E.	XXXXX	Extras of the tariff

4.5 TAXIMETER ERROR MESSAGES

When there is a functional error affecting the taximeter function, it will display the error code.

The available error codes are:

Code	Description
E-2	Roof lights failure
E-3	Distance signal error
E-4	Clock error
E-5	The taximeter is out of the configured revision period
E-6	Excess speeding
E-7	Working time max exceeded
E-8	Error in the tariff parameters
E-9	Taximeter software error
E-10	Printer failure

5 PAYMENT MENU

The Terminal functions include a Payment menu, in order to perform the trip payment with different available payment methods. While the Terminal is in Payment mode, it is possible that the Taximeter is not able to pass to For Hire until the Payment has been finished.

5.1 AMOUNTS MENU

The Amounts menu on the Terminal software displays the concepts that form the total amount, plus the addition. The concepts on the Amounts menu are:

Taximeter Amount	Always. Not editable
Taximeter Extras	If entered in the taximeter. Not editable
Tips	Optional
Tolls	Optional
Total	Addition of all amount concepts

Tips or Tolls are configurable, depending on local regulations. Tolls are used in case the taxi has gone through a Toll (highway, tunnels, etc.) and if they have to be paid by the passenger.

RESTART TRIP

In some cases, if the taxi is in the Amounts menu for a trip dispatched from the central which was started too soon, the taxi driver is optionally allowed to restart the Central trip.

This will switch the Fleet Management application back to Dispatched, and will allow the driver to re-start the taximeter trip. The Taximeter trip is always included in the Totalizers, but in the Shifts information it might be marked as Restarted.

This might be enabled or disabled depending on the configuration of the Radio Taxi.

5.2 PAYMENT SYSTEMS

The Terminal goes into the Payment Systems screen. Depending on the configuration, it is possible that the following options are proposed:

	Cash payment. The ticket may be printed automatically if required by the local legislation
	Credit Card payment, with a connected EMV Pin-Pad
	Subscriber payment
	Prints a trip ticket

5.2.1 CREDIT CARD PAYMENT

Depending on the electronic payment processor center, credit and debit cards, such as Visa, Master Card, American Express, may be used for payment. Consult your Radio Taxi or local distributor to know which cards are active.

Press the CREDIT CARD PAYMENT button. The Terminal sends the amount to the PIN-Pad. Follow the instructions on the PIN-Pad screen to continue with the payment. Depending on the type of card, the customer might have to enter the PIN code. In this case, hand the PIN-Pad to the passenger so they can enter the PIN.

TRANSACTION AUTHORISED

If the payment is Authorized, the credit ticket Driver copy is printed. Check if signature is required, as in some markets it is required instead or even additionally to the PIN. If the Signature frame has been printed, then Signature is required.

Press the Customer Copy button to print the copy for the Customer.

TRANSACTION DENIED

If the payment is not authorized, depending on the card processor, an Error Message will be shown onscreen. The message will vary, depending on the type of error that has occurred. You may retry the payment if necessary, or choose a different payment method.

CANCELLING A CREDIT CARD PAYMENT

After a correctly processed payment, when the Terminal has switched to Free, it is possible to cancel the last credit card payment. Select the CANCEL CREDIT CARD PAYMENT option.

5.2.2 SUBSCRIBER PAYMENT

If the dispatch was sent from the Radiotaxi as Subscriber trip, the payment is first started as Subscriber. The screen menus may vary slightly, depending on the dispatch or user properties.

If the Subscriber properties demand for Subscriber card validation, you have to slide the Subscriber card through the TXD70 built-in magnetic card reader, or the magnetic card reader of the EMV PIN-Pad if connected.

Depending on the properties of the Subscriber, you might have to enter an Authorization code.

If the payment is authorized, the Subscriber Payment tickets are printed.

If the Subscriber payment is not authorized, you may choose another payment method.

6 RADIO TAXI FUNCTIONS

6.1 LOCATIONS

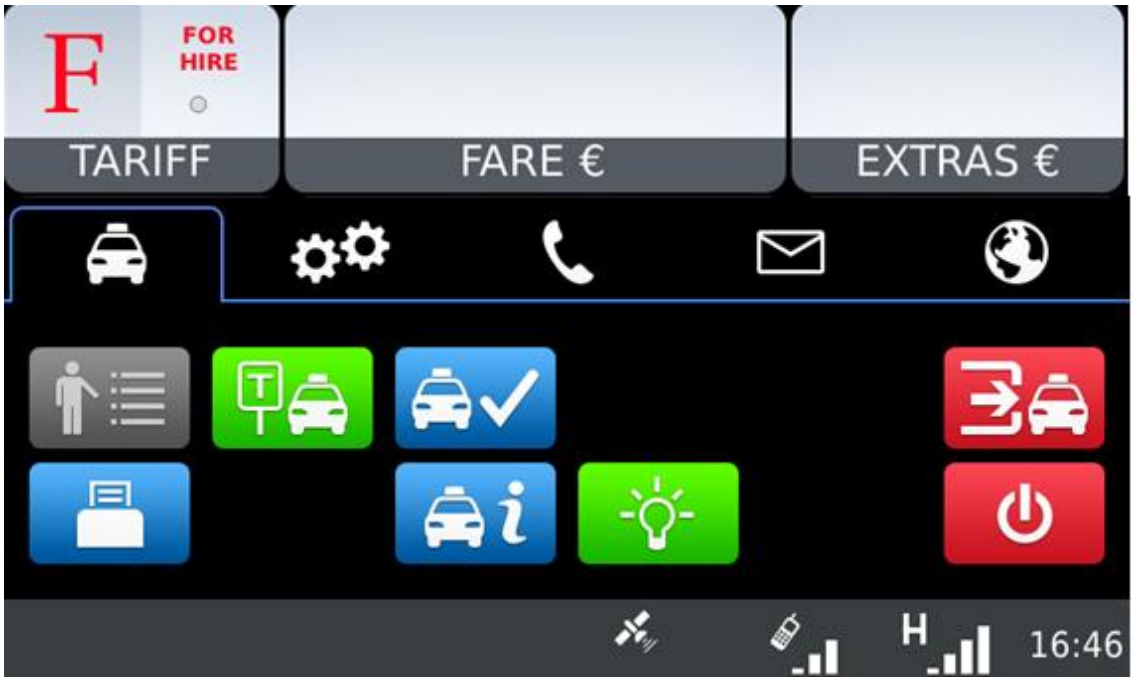
At the start of the connection to the radiotaxi, the device will start calculating the zone in which it is, based on the GPS location. The zone information is automatically sent to the central. No user intervention is necessary.

If the location is inside a working zone, the status is changed from FREE to LOCATED IN ZONE. When the taxi locates into a zone, on the Status Bar the location will be displayed, in the following format:

Type of location	Zone name	Order in the zone
• Taxi Rank • Zone • Hired	This field displays the name of the zone in which the taxi is located	The order of the taxi in the zone is displayed for a configurable time

The order of the taxi in the zone is displayed for a configurable time.

	LOCATION REFRESH updates information on the Order in the Zone
	DEACTIVATE LOCATION when the driver does not want to receive trips from the central for a period
	ACTIVATE LOCATION when Location is Deactivated, and you want to be active to receive trips again
	LOCATE INTO TAXI RANK when you want to log into a rank. Available only when the taxi is inside of the Taxi Rank area. Otherwise you will get an error sound
	DELOCATE FROM TAXI RANK to go out from a Taxi Rank and come back to Zone Location
	LOCATION INFO When the taxi is located, Location Information is activated
	AVAILABLE TRIPS When Located, it is possible to receive the list of trips the central has not assigned automatically, probably because there were no taxis in the adequate zone.



6.2 AVAILABLE TRIPS

When Located, it is possible to receive the list of trips the central has not assigned automatically, probably because there were no taxis in the adequate zone.

Trip 1	Zone of trip start	Zone of trip end	Street of trip start	Trip requirements
Trip 2	Zone of trip start	Zone of trip end	Street of trip start	Trip requirements
Trip N	Zone of trip start	Zone of trip end	Street of trip start	Trip requirements

You can request a trip from the list. If the central validates, the taxi will receive the trip.

If the trip can not be assigned, a message “CANNOT ASSIGN TRIP” is received.

If no trips are available, a message “NO AVAILABLE TRIPS” will be received.

6.3 LOCATION INFORMATION

By selecting the Location information, you can consult the following information, which is related to the distribution of work in the zones.

	Taxis in the Taxi Rank of the zone	Taxis in the Zone	Hired taxis finishing trip in the Zone	Customers waiting for a taxi
Zone 1..N	Green	Yellow	Red	White

Depending on the configuration of your Radio Taxi, if this screen is kept opened, the information on the zones will be updated as the taxi moves around the area, updating the menu to always include the zone in which the taxi is located.

Once you use Scroll, the menu stops following your Taxi next locations, until you close the Location Info window and open it again. This is in order to let you consult the information on another zone of your interest, without the information changing while you are reading.

The information on the Taxis in a Zone is accumulated with the taxis in a Taxi Rank, as the taxis in the Taxi Rank have more priority to those in the zone.

The same is valid for the Taxis in Hired finishing trip in a Zone: This information is accumulated with the Taxis in the Rank and the taxis in the Zone.

The possible actions in this screen are:

	Scroll up.
	Scroll down
	Close the Location information
	Go one level up to Macrozones

Macrozones are areas which contain several Zones. The information on the Macrozones is equivalent to the information on the Zones, adding up all the Zones in the Macrozone.

6.3.1 ZONE DETAILED INFO

Zone Taxis Detail provides detailed information about the taxis in a zone

Zone Name	Taxis in the Rank	Taxis in the Zone	Taxis in Hired
Order number	Taxis located in Rank. Including the time they located	Taxis located in the Zone	Taxis finishing trips in the Zone

Zone Customers Detail provides detailed information about the customers in a zone

Zone Name	Trips in the Zone	Requirements
Order number	Time the trip was reserved for	Special requirements of the trip

These functions may be activated/deactivated depending on your Radio Taxi configuration

6.4 DISPATCH RECEPTION

When the taxi receives a Dispatch, the following information is displayed.

Time for trip start	Zone of trip start	Requirements of the trip
	You have a new dispatch	Address of trip start
	Do you accept it?	

Some of this information is optional, so it might be displayed or not, depending on the configuration of your Radio Taxi central. There is a maximum time to accept the trip. If it is exceeded, it's automatically rejected.

Trip options available after accepting a dispatch are:

	DISPATCH INFO Once a dispatch is accepted, the complete trip information is displayed. In the Trips screen, the Dispatch Info button opens this info again.
	If the customer has requested a notification of arrival of the taxi, the AT DOOR button activates. Select it, and the customer will receive the notification
	If you arrive at the pick-up point and the customer is not there, select NO SHOW. The Radio Taxi central will handle the situation and give instructions
	If the customer arrives, after you had already notified NO CUSTOMER, let the central know with CUSTOMER ARRIVED.
	RETURN if the taxi has accepted a dispatch but needs to send it back In some Radio Taxis, returning dispatches to central may be a reason for a temporary sanction, so find out the politic of your fleet before using this option.
	When the taxi has a dispatch, the roof light Free sign may be deactivated. This avoids confusion for the rest of customers on the street, who try to hail the taxi because they see the Free light, but the taxi is not available. This function is configurable in case it's not allowed by local regulations

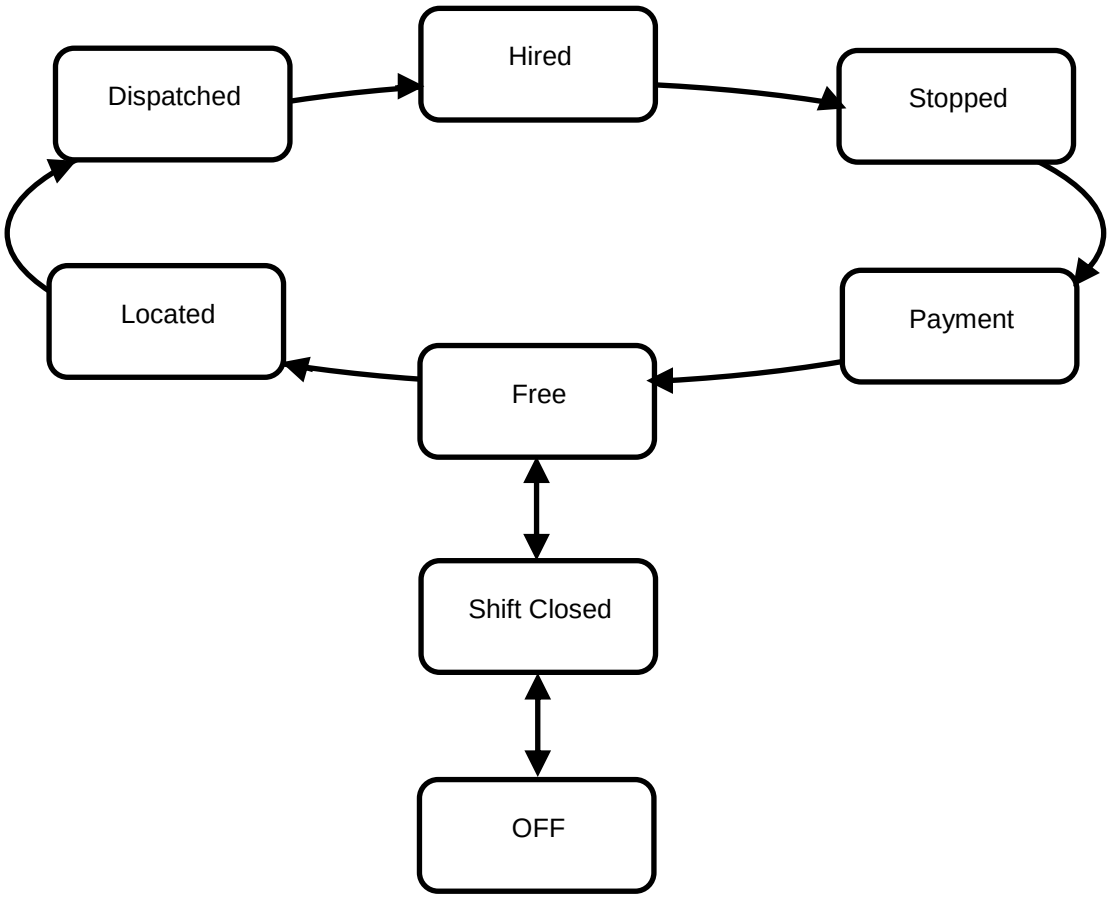
6.5 DISPATCH INFO

Once a dispatch is accepted, the complete trip information is displayed.

	Display the observations on the trip. Inactive if there are no observations
	If the customer has communicated the destination of the trip, the button is active and displays the destinations. It may also be possible to navigate to these destinations
	Exit the Dispatch info and go back to the main screen
	Navigate to the trip start address
	Print a summary of the Dispatch info

6.6 WORKFLOW DIAGRAM

As a summary of the main Radio Taxi and Taximeter functions, this diagram explains the flow of a Dispatched trip.



7 GENERAL FUNCTIONS

	Paper feed
	Prints a copy of last credit card ticket. Active only after a credit card payment.
	Information on the device, and system configuration
	Configuration parameters of the Radio Taxi application
	Functionality related to working shift information
	Downloads the settings/zone if it is connected to a XMPP server.
	Exit: In any of the sub-menus, goes up a level to the previous screen

7.1 SYSTEM

	Current Date and Time
	Information on the state of the GPS module
	Information on the state of the GSM / GPRS modules Both coverage and IP addresses
	Information on the main software versions and configuration
	Allows adjusting the volume of the loudspeaker and the display's beep
	Information on the internal battery, and on the vehicle battery

	Allows to adjust the display brightness parameters. Min brightness, Max brightness, Sensitivity to light sensor info

7.2 CONFIGURATION

	When the taxi receives a Dispatch, activate or deactivate the automatic printing of the dispatch info.
	Enter a phone number to which the Terminal will make a phone call when it receives a Dispatch. This is to warn the driver if outside the car while in a Taxi Rank.
	Configures a PIN that filters access to the phone calls.
	Change language of the device to user preference.
	Activates or deactivates the function that provides a voice informing of the Taximeter amounts during a trip. Available only in some markets.
	If the Sygic navigator is activated, it automatically starts when the TXD70 turns on. If it is disabled, it must be activate it by pressing the navigator tab.

7.3 SHIFTS

	Income Partials: Prints the information on the trips income accumulated since last closing, allowing for a basic income management The information is broken down into Cash, Credit, and Subscriber payments
	Income Closing: Prints the information on the trips income accumulated since last closing, allowing for a basic income management It also resets all values to zero and increases the closing number
	Prints a Shift ticket, after a selection of the shift number to be printed.
	Configuration of the Shifts application
	Activates or deactivates printing information of each individual trip in Shift tickets

	Activates or deactivates printing start trip and end trip addresses in the Shift tickets
	Activates or deactivates automatic Income Closing when the user closes the working shift

8 CALLS

	Dialing the number to make a phone call
	Adjust the call volume
	Enter the phone number Agenda
	Add an Agenda entry
	Delete an Agenda entry
	The driver requests to talk to the Operator. The operator will call when available.
	Once the request has been made, it can be cancelled.

9 MESSAGES

	List of received messages
	Print a message
	Delete a message from the list

	Request Information from the central. An interactive menu with the available Information options will open. Select the desired option
	Request Services or assistance from the central. An interactive menu with the available Information options will open. Select the desired option.

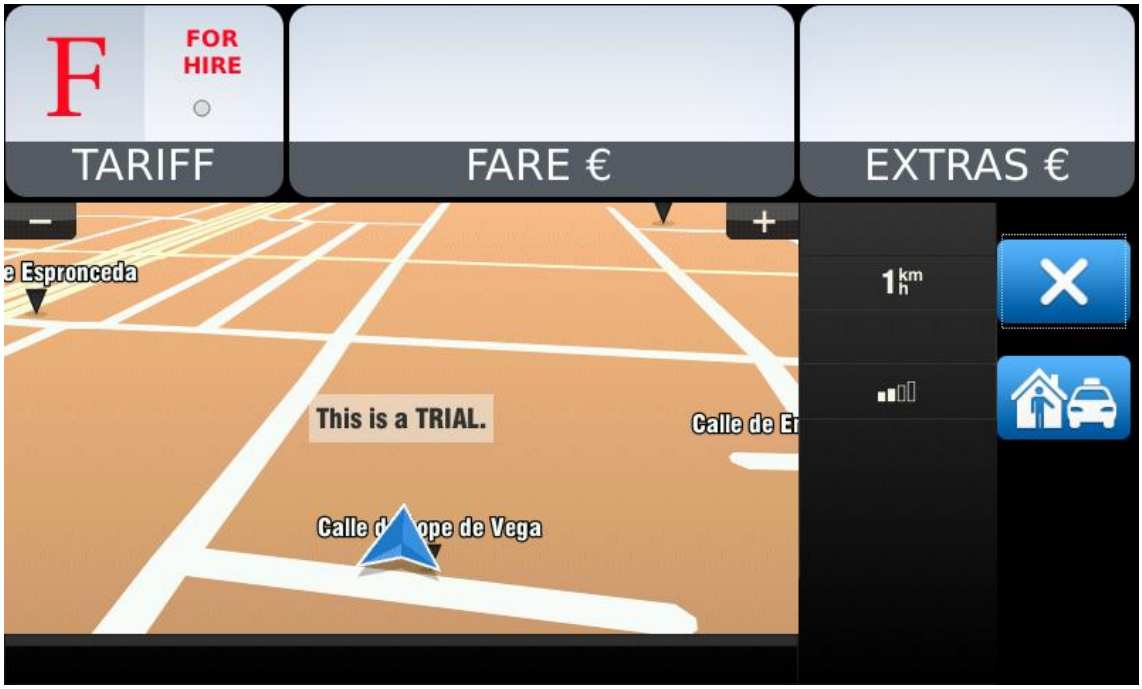
10 NAVIGATOR

TXD70 devises purchased after March 2015 have a Sygic Navigator license incorporated with 4 map updates included. Sygic publishes a map update every 6 months.

10.1 Instructions for equipment purchased before March 2015

TXD70 devises acquired before March 2015 have a preinstalled trial license of the Sygic navigator.

The navigator will work until 14 days from the installation with the label “This is a TRIAL”.



In gratitude to the first TXD70 users at launch,

the Navigator has a trial license already activated that expires in 15 days since its first launch.

There is the possibility to purchase the license at any moment during or after the trial period.

For this, it is first necessary to obtain the Device Code and provide it to your installer. This code is in the Browser Menu, Settings, About Sygic FLEET.

By providing the Device Code to the installer, this one will contact INTERFACOM S.A. I order to get the Activation Code. Your installer will receive the Activation Code from INTERFACOM S.A. and he will provide it for you to enter.

On the General Functions tab and Settings, press the button Navigator License Activation.

Then enter the Activation Code provided by your installer and sent by INTERFACOM. Just introducing the code is enough to have the purchase of a license of Sygic Navigator with 4 map updates included. Sygic publishes a map update every 6 months.

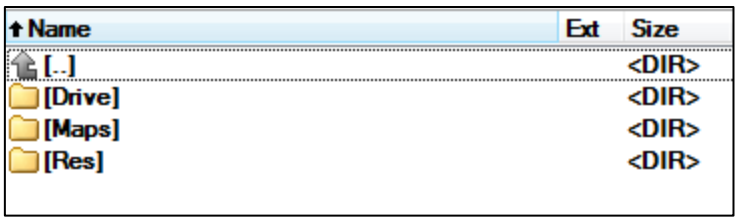
10.2 SYGIC MANUAL UPDATE INSTRUCTIONS

VERY IMPORTANT:

ALWAYS BACK UP YOUR SD CARD FILES BEFORE DOING AN UPDATE

10.2.1 CUSTOMER'S SD CARD TO BE UPDATED

The files will look as follows:



Customer's SDcard

Maps folder contains:

- Country folders – they differ depending on a region you have, e.g. Iberia includes *and*, *esp*, *gib*, *prt*
- *wcl* folder
- *license.txt* file
- *.mlm file, the name of the file again depends on a product you have, e.g. *Sygic Fleet Portable 10 - Iberia 2017.09.mlm*

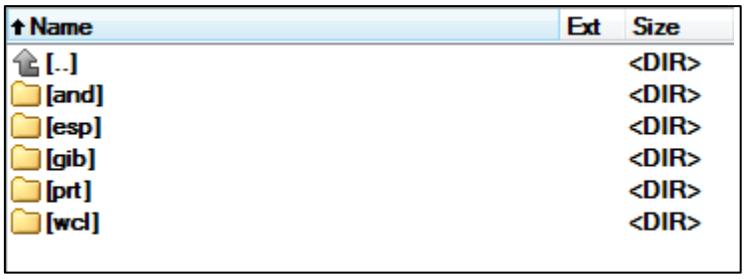
Customer's SDcard/Maps folder

The *.mlm file describes the product you have. If you bought a license with prepaid update, the *.mlm file will indicate that. Let's say, that your product is Iberia 2013.09 with 3 years update. Then your product would be Iberia 2017.09, which is the highest version of maps which will work with your license.

10.2.2 UPDATE PACKAGE

New versions of the maps will be promptly informed on our website www.taxitronic.com. Sygic will provide a file containing the new maps. It will include:

- Country folders – again they differ depending on a region you have. They should be the same as in the original package
- *wcl* folder

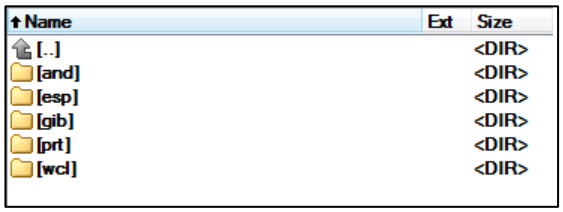


Update package

10.2.3 THE UPDATE PROCEDURE

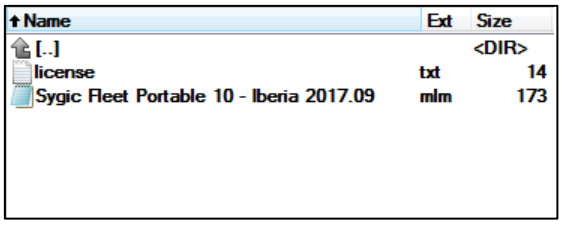
Please open both customer's SD card/Maps folder and update package.

Customer's SDcard/Maps folder

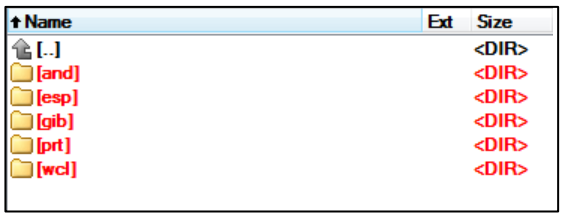


Update package

From customer's SD card delete country folders and wcl folder. Please make sure, that you keep *license.txt* and **.mlm* file..



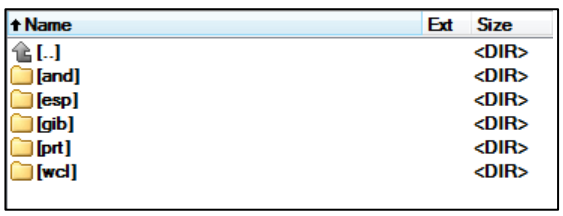
Customer's SDcard/Maps folder



Update package

Copy the folders from update package to Customer's SD card / Maps folder.

Customer's SDcard/Maps folder



Update package

The update is DONE.

10.3 SYGIC USER MANUAL